

SECRET  
Approved For Release 2002/01/24 : CIA-RDP83T00573R000300220011-6

*File ORD*

ORD

FY81 RESEARCH PROGRAM

IN SUPPORT OF

OFFICE OF DATA PROCESSING

1 AUGUST 1980

Approved For Release 2002/01/24 : CIA-RDP83T00573R000300220011-6

SECRET

25X1A

Approved For Release 2002/01/24 : CIA-RDP83T00573R000300220011-6

Approved For Release 2002/01/24 : CIA-RDP83T00573R000300220011-6

SECRET  
Approved For Release 2002/01/24 : CIA-RDP83T00573R000300220011-6

## ORD RESEARCH PROGRAM DEFINITION

- REQUIREMENTS GENERATED BY ALL OFFICES
- RANKING OF REQUIREMENTS (CRITICALITY, \$ PAY OFF)
- R&D VALIDITY
- ORD SKILL BASE
- PERCEPTUAL PROGRAM FILTERS
- FUNDING AVAILABILITY

1 AUGUST 1980

Approved For Release 2002/01/24 : CIA-RDP83T00573R000300220011-6  
SECRET

SECRET

## ODP FY81 RESEARCH REQUIREMENTS

- SECURITY FILTERING TECHNOLOGY (DDA RANKED #1)
  - CONTROLLED NON-AGENCY COMMUNITY ACCESS TO AGENCY DATA BASES
  
- DATA ENCRYPTION TECHNIQUES (DDA RANKED #2)
  - OVERSEAS MAGNETIC MEDIA STORAGE (CRAFT/CLASS A FINANCIAL SYSTEM)
  
- TEXT SEARCH (DDA RANKED #4)
  - HSTS TECHNOLOGY (HARDWARE AND MICROCODE) TO ODP DATA BASES

1 AUGUST 1980

SECRET

SECRET

Approved For Release 2002/01/24 : CIA-RDP83T00573R000300220011-6

## PROPOSED ORD FY81 PROGRAM

FY81

### INFORMATION SYSTEMS

- ADVANCED TEXT SEARCH AND RETRIEVAL
- DATA PROTECTION TECHNIQUES FOR DATA  
STORED ON MAGNETIC MEDIA
- COMPUTER NETWORK SECURITY

### RELATED RESEARCH

- INFORMATION PROCESSING FOR ANALYSTS

25X1A

1 AUGUST 1980

Approved For Release 2002/01/24 : CIA-RDP83T00573R000300220011-6

SECRET

~~SECRET~~

ADVANCED TEXT SEARCH AND RETRIEVAL - STUDY THE APPLICATION OF ADVANCED TEXT SEARCHING AND RETRIEVAL TECHNIQUES, INITIALLY DEVELOPED UNDER THE HIGH SPEED TEXT SEARCH PROGRAM, FOR APPLICATION TO ODP RETRIEVAL REQUIREMENTS. THE FY81 STUDY WILL INCLUDE AN EXAMINATION OF THE APPLICATION OF THE TECHNIQUES BY DIRECT INCORPORATION IN CPU'S (VIA MICROCODE) OR TO PERIPHERALS (VIA MODIFIED DISK CONTROLLERS), A DEFINITION OF FEASIBILITY, AND IDENTIFICATION OF A DESIGN APPROACH.

25X1A

FUNDS:



1 AUGUST 1980

~~SECRET~~

~~SECRET~~

DATA PROTECTION TECHNIQUES FOR DATA STORED ON MAGNETIC MEDIA - EXPLORE TECHNICAL MEANS FOR THE PROTECTION OF COMPUTER DATA STORED ON MAGNETIC MEDIA USED IN FIELD APPLICATIONS. THE OBJECTIVE IS TO AVOID THE COMPROMISE OF DATA WITHOUT THE NEED TO DESTROY DISKS AND TAPES. THE FY81 STUDY WILL EXAMINE ALGORITHMS FOR STORING AND RETRIEVING DATA IN PROTECTED FORM. THE ANALYSIS WILL ADDRESS IMPLEMENTATION, COST, AND OPERATIONAL CONSIDERATIONS.

25X1A

FUNDS:



1 AUGUST 1980

~~SECRET~~

Approved For Release 2002/01/24 : CIA-RDP83T00573R000300220011-6

~~SECRET~~

COMPUTER NETWORK SECURITY - EXPLORE METHODOLOGY TO PROVIDE A PROVABLY SECURE  
MECHANISM TO ALLOW ACCESS TO AGENCY SYSTEMS BY OTHER INTEL-  
LIGENCE COMMUNITY MEMBERS THAT OBSERVES COMPARTMENTATION  
REQUIREMENTS. THE FY81 STUDY WILL ESTABLISH THE FORMAL  
SPECIFICATION OF REQUIREMENTS AND WILL DETERMINE THE  
SOLVABILITY OF THE FORMULATED PROBLEM.

25X1A

FUNDS:



1 AUGUST 1980

Approved For Release 2002/01/24 : CIA-RDP83T00573R000300220011-6

~~SECRET~~

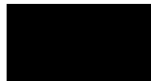


~~SECRET~~

INFORMATION PROCESSING FOR ANALYSTS - CONTINUE THE EXPLORATION OF COMPUTER SYSTEMS ARCHITECTURES WHICH WILL PROVIDE AN INFORMATION PROCESSING ENVIRONMENT DIRECTED TOWARDS THE MANIPULATION OF ANALYST'S COGNITIVE MODELS RATHER THAN THE MANIPULATION OF ANALYST'S DATA. THIS PHASE OF THE ACTIVITY INVOLVES THE SELECTION OF AN APPLICATION AREA AND THE DEVELOPMENT OF A DEMONSTRATION TESTBED FOR THE ARCHITECTURAL CONCEPTS.

25X1A

FUNDS:



1 AUGUST 1980

~~SECRET~~

Approved For Release 2002/01/24 : CIA-RDP83T00573R000300220011-6

SECRET

## OTHER ODP FY81 RESEARCH REQUIREMENTS

- BANDWIDTH COMPRESSION TECHNIQUES (DDA RANKED #5)
  - MORE EFFECTIVE UTILITY OF BANDWIDTH CONSTRAINED COMMUNICATIONS OVERSEAS
  
- FIBER OPTICS FOR WIDEBAND INTRA-AGENCY COMMUNICATIONS (DDA RANKED #5)
  - TRANSMISSION OF VOLUMINOUS TEXT AND IMAGERY TO ANALYST STATIONS
  - (I.E., ADSTAR AND IDEX)

25X1A

1 AUGUST 1980

Approved For Release 2002/01/24 : CIA-RDP83T00573R000300220011-6

SECRET